

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Withdrawn) A dispenser for fabricating a liquid crystal display panel, comprising:
a syringe having a nozzle at one end and separated from a substrate;
a vertical driving motor driving the syringe in a vertical direction;
a contact type switch switching on/off the vertical driving motor depending on whether the nozzle and the substrate are in contact with each other; and
a first sensor detecting an initial value between the nozzle and the substrate by switching on and off the contact type switch.
2. (Withdrawn) The dispenser of claim 1, wherein the first sensor comprises a laser displacement sensor.
3. (Withdrawn) The dispenser of claim 1, wherein a sealant is stored in the syringe.
4. (Withdrawn) The dispenser of claim 1, wherein a liquid crystal is stored in the syringe.
5. (Withdrawn) The dispenser of claim 1, wherein a liquid silver is stored in the syringe.
6. (Withdrawn) The dispenser of claim 1, wherein the vertical driving motor drives the syringe according to driving data inputted from a user through an input unit.
7. (Withdrawn) The dispenser of claim 6, wherein the input unit comprises one of a touch panel and a keyboard.
8. (Withdrawn) The dispenser of claim 1, further comprising a body supporting the syringe.

9. (Withdrawn) The dispenser of claim 1, further comprising a table on which the substrate is loaded.

10. (Withdrawn) The dispenser of claim 9, wherein the table is capable of horizontally moving in forward/backward and left/right directions.

11. (Currently Amended) A method ~~for controlling a gap between a nozzle and a substrate by using a dispenser~~ for dropping dropping material for fabricating a liquid crystal display panel, comprising:

loading a substrate on a table;

lowering a body supporting a syringe having a nozzle at one end towards ~~the~~ ~~{a}}~~ substrate using a vertical driving motor, wherein the vertical driving motor drives the syringe according to driving data input from a user through an input unit which comprises one of a touch panel and a keyboard, wherein the lowering is performed at a first speed;

stopping the lowering when the nozzle contacts the substrate, wherein a contact type switch detects the nozzle contacting the substrate;

lifting up the body, wherein the contact type switch detects the nozzle being isolated from the substrate, wherein the lifting is performed at a second speed, and wherein the second speed is slower than the first speed;

detecting an initial value between the nozzle and the substrate when a state of the contact type switch is switched, wherein the initial value is a height of the nozzle from the substrate when the nozzle is in contact with the substrate, and wherein the detecting the initial value is performed by a laser displacement sensor; ~~and~~

positioning the body ~~after detecting the initial value~~, so that the nozzle reaches a desired height from the initial value and controlling the gap between the substrate and the nozzle to be maintained at a certain interval; and

horizontally moving the table with the loaded substrate in forward/backward and left/right directions while the dropping material within the syringe is being dropped through the nozzle onto the substrate.

12-14. (Cancelled)

15. (Original) The method of claim 11, wherein a sealant is stored in the syringe.

16. (Original) The method of claim 11, wherein a liquid crystal is stored in the syringe.

17. (Original) The method of claim 11, wherein a liquid silver is stored in the syringe.

18. (Currently Amended) A method for dropping dropping material for fabricating liquid crystal display panel ~~controlling a gap between a nozzle and a substrate~~, comprising:

loading a substrate on a table;

lowering a body supporting a syringe having a nozzle at one end towards the ~~the~~ substrate, wherein the lowering is performed at a first speed;

stopping the lowering when the nozzle contacts the substrate, wherein a contact type switch detects the nozzle contacting the substrate;

lifting up the body, wherein the contact type switch detects the nozzle being isolated from the substrate, wherein the lifting is performed at a second speed, and wherein the second speed is slower than the first speed;

detecting an initial value between the nozzle and the substrate when a state of the contact switch is switched, and wherein the detecting the initial value is performed by a laser displacement sensor, wherein the initial value is a height of the nozzle from the substrate when the nozzle is in contact with the substrate; ~~and~~

positioning the body ~~after detecting the initial value~~ so that the nozzle reaches a desired height from the initial value and controlling the gap between the substrate and the nozzle to be maintained at a certain interval; and

horizontally moving the table with the loaded substrate in forward/backward and left/right directions while a sealant is being dropped through the nozzle onto the substrate to form a seal pattern.

19. (Cancelled)